

## LIQUID CO<sub>2</sub> STORAGE TANKS



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#### The CO<sub>2</sub> storage tanks comprise:

- Liquid level indicator (differential pressure type) with safety switch against overfilling
- Load cells (option, for horizontal tanks)
- Double-mounted safety relief valve with change-over valve
- Necessary valves and fittings
- Manhole for inspection

#### Connections for:

- CO<sub>2</sub> plant, liquid and gas
- Truck filling station
- Cylinder filling station
- CO<sub>2</sub> evaporator
- Blow-off and drain

#### Pentair Union Engineering can provide three type of insulation for our CO<sub>2</sub> storage tanks;

##### Pre-insulated prior to shipment with the following insulation:

- 120 mm polyurethane (150 mm for 110 m<sup>3</sup>)
- 1 mm aluminium cladding

##### Pre-fabricated insulation materials delivered separately for installation on site:

- 150 mm polystyrene
- vapour barrier
- 20 mm mineral wool
- 1 mm aluminium cladding

##### Vacuum insulated cryogenic (only available as vertical design):

- Insulation: Fine grain perlite + vacuum
- Vacuum value: min.  $5 \times 10^{-2}$  mbar(a)

Design pressure: 20 bar(g)  
(25 bar(g) for vacuum insulated type)

### TECHNICAL DATA

Design temperature: -40/+40 °C

Seismic zone: UBC 2

(other zones available on request)

Design code: PED 97/23/EC

(other approvals available on request)

The tanks are available in following sizes:

Net capacity	Volume
20 tons	21.3 m <sup>3</sup>
29 tons	30.6 m <sup>3</sup>
48 tons	51 m <sup>3</sup>
76 tons	80 m <sup>3</sup>
103 tons	110 m <sup>3</sup>

Other sizes available on request